

## NGVTF Technical Committee Meeting Agenda Draft

### Day 1 Agenda—January 28

7:00–8:00 AM Breakfast

#### Opening

8:00–8:15 Introduction—Dennis Smith, DOE  
8:15–8:30 Agenda Review—Richard Parish, NREL/Facilitator

#### Infrastructure—Richard Parish, NREL

8:30–8:45 GTI Infrastructure Working group project summary—Bill Liss, GTI

#### CNG

8:45–9:05 CNG station best practices—Rob Adams, Marathon  
9:05–9:25 Home refueling appliance/mini fast fill—Mario Pirraglia, FuelMaker  
9:25–9:45 Universal Card access—David Haradon, ENRG  
9:45–10:05 Fuel use accounting—Rick Tidball, Energy International  
10:05–10:20 Break

#### LNG

10:20–10:45 Small scale liquefaction—Bruce Wilding, INEEL  
10:45–11:05 LCNG & LNG overall energy requirements vs. economics—Jim Wegrzyn, BNL  
11:05–11:30 Landfill gas overview—Jim Wegrzyn, BNL  
11:30–12:15 **Panel Discussion: Infrastructure needs, hurdles, and next steps**  
Brian Stokes, PG&E; Mike Eaves, CNGVC; Bill Liss, GTI; FuelMaker; ENRG; Steve Bartlett, Alt Fuels  
• Fuel use accounting  
• CNG infrastructure deployment: anchor tenants/mini fast fill  
• LCNG vs. gas compressors  
• LNG station throughput economics, what scale is appropriate? Less than 20,000 gal or 70,000+ gal

12:15–12:30 NGV infrastructure in Texas

12:30–1:15 Lunch

#### Engines and Vehicle Integration—Kevin Walkowicz, NREL

1:15–1:35 Overview—Kevin Walkowicz, NREL  
Current Status:  
• Vehicle projects  
• Engine projects  
• Aftertreatment development  
**Panel Discussion: HD/MD engine and aftertreatment technology**  
1:35–2:05 Spark ignited lean burn engines vs. pilot ignited HPDI lean burn engines vs. diesel: Benefits, drawbacks, status and technology to enable new engine certifications—Patric Ouellette, CWI  
2:05–2:20 Pilot ignited, port injection, lean burn engines (Dual Fuel): Benefits, drawbacks, status and experience—Clean Air Partners (invited)

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2:20–2:35	Spark ignited stoichiometric engines with TWC: Challenges, opportunities, technology—Alex Lawson, GFI
2:35–2:50	Other engine strategies in development: Micro pilot ignited lean burn engine, hot surface ignition of lean burn direct injected engines, 'EGR in NG engines'—Kevin Walkowicz, NREL
2:50–3:15	Discussion/Q & A
3:15–3:30	Break
3:30–4:00	Aftertreatment options and challenges for lean burn and stoichiometric NG engines—Joe Kubsh, MECA <a href="#">Panel Discussion: Light duty engine and aftertreatment options and challenges</a>
4:00–4:15	General Motors (invited)
4:15–4:30	Ford—Rich Williams
4:30–5:00	Discussion

## Day 2 Agenda—January 29

7:00–8:00 AM Breakfast

### Component Development/Storage Systems—Denny Stephens, Battelle

8:00–8:10	CNG fuel systems technology—Lou Lautman, GTI
8:10–8:30	LNG fuel systems technology—Jim Wegrzn, BNL <ul style="list-style-type: none"> <li>• LNG fuel pumps</li> <li>• Low pressure LNG storage tank</li> <li>• Turbo intercooler</li> </ul>
8:30–8:45	LNG fuel lubricity field test program—Bruce Wilding, INEEL
8:45–10:00	<a href="#">Panel Discussion: Vehicle Integration Challenges</a> <ul style="list-style-type: none"> <li>• Freightliner (invited)</li> <li>• Yoshio Coy, NGV Ecotrans</li> <li>• Alex Lawson, GFI</li> <li>• PACCAR (invited)</li> </ul>
10:00–10:15	Break

### Demonstration & Deployment Projects—Kevin Chandler, Battelle

10:15–10:35	Norcal—Presentation by Cummins Westport (invited)
10:35–10:55	Waste Management (invited)
10:55–11:15	DART/Battelle—Darryl Spencer
11:15–11:35	DFW Airport—Rusty Hodapp
11:35–12:15	<a href="#">Panel Discussion: Challenges of first deployment of new technology</a> <ul style="list-style-type: none"> <li>• Waste Management (invited)</li> <li>• Darryl Spencer, DART</li> <li>• Rusty Hodapp, DFW</li> <li>• ENRG (invited)</li> </ul>

12:15–1:00 Lunch

### Codes and Standards—Doug Horne, NGVTF

1:00–1:10	Introduction and issues—Doug Horne, NGVTF
1:10–1:35	Status of current C & S development—Hank Seiff, NGVC
1:35–1:45	Discussion and questions

### New Technologies—Henry Hogo, SCAQMD

1:45–3:00	<a href="#">Panel Discussion</a> <ul style="list-style-type: none"> <li>• Pathways to hydrogen</li> <li>• NG hybrid electric drivetrains</li> <li>• HCNG</li> </ul>
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### Wrap-Up—Richard Parish, NREL

3:00–3:30	What did we hear? Comment cards Key points to carry forward and next steps—Dennis Smith, DOE
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